

IN THE SPECIFICATION:

Please amend the Specification as follows:

Please amend paragraph [0040] of the specification, which corresponds to page 15, line 4 of the originally filed application, as follows:

~~FIG. FIGs. 1 (a)-(f) are is a view of~~ views illustrating a production process, which schematically show ~~shows~~ an example of the method for producing a membrane-electrode structure of the present invention;

Please amend paragraph [0048] of the specification, which corresponds to page 16, line 14 of the originally filed application, as follows:

~~FIG. FIGs. 9 (a)-(f) are is a view of~~ views illustrating a production process, which schematically show ~~shows~~ an example of the method for producing a membrane-electrode structure of the present invention;

Please amend paragraph [0055] of the specification, which corresponds to page 17, line 13 of the originally filed application, as follows:

Next, the method for producing a membrane-electrode structure of the present example will be described with reference to ~~FIG~~ FIGs. 1 (a)-(f).

Please amend paragraph [0075] of the specification, which corresponds to page 24, line 4 of the originally filed application, as follows:

Thereafter, using the sulfonated polyarylene based polymer represented by the above formula (1), a polymer electrolyte fuel cell was produced with the membrane-electrode structure 9 obtained by the production method in the present example, and another electrolyte fuel cell was produced with a membrane-electrode structure 10 shown in FIG. 15 ~~[[7]]~~ obtained by the same above production method with the exception that the hydrophilic layer 8 was not formed. Using the thus obtained polymer electrolyte fuel cells, electric power was generated, and terminal voltage and resistance overvoltage to current density were measured. A change in terminal voltage to current density is shown in FIG. 2, and a change in resistance overvoltage to current density is shown in FIG. 3.

Please amend paragraph [0085] of the specification, which corresponds to page 27, line 14 of the originally filed application, as follows:

Next, the method for producing a membrane-electrode structure of the present examples will be described with reference to ~~FIG~~ FIGs. 1 (a)-(f)

Please amend paragraph [0094] of the specification, which corresponds to page 30, line 16 of the originally filed application, as follows:

Thereafter, using the sulfonated polyarylene based polymer represented by the above formula (1), the following 3 types of membrane-electrode structures were prepared: a membrane-electrode structure 9 (Example 2) in which the

applied amount of the hydrophilic layer 8 after drying was set to 0.35 mg/cm^2 ; another membrane-electrode structure 9 (Example 3) in which the applied amount of the hydrophilic layer 8 after drying was set to 0.70 mg ; and another membrane-electrode structure 10 (Comparative example 2) as shown in FIG. 15 **[[14]]** in which the hydrophilic layer 8 was not formed at all. These 3 types of membrane-electrode structures were measured in terms of the maximum height R_{max} of surface roughness, the ratio of the surface area to the unit area, and the differential pressure between one side of the diffusion electrode 4 and the other side thereof obtained when the air was supplied at a flow rate of $0.5 \text{ L/cm}^2/\text{min}$ in the direction of the thickness of the diffusion electrode 4. The results are shown in Table 1.

Please amend paragraph [0097] of the specification, which corresponds to page 32, line 1 of the originally filed application, as follows:

As shown in FIG. 1 (f) **[[7]]**, since the membrane-electrode structures 9 (Examples 2 and 3) in which the hydrophilic layer 8 is formed have an excellent power generation efficiency, it is clear that an excellent adhesiveness is obtained between the electrode catalyst layer 3 and the diffusion electrode 5 in such membrane-electrode structures 9.

Please amend paragraph [0101] of the specification, which corresponds to page 33, line 5 of the originally filed application, as follows:

Next, the method for producing a membrane-electrode structure of the present examples will be described with reverence to ~~FIG-FIGs.~~ 9 (a)-(f).